## INTERNATIONAL SEARCH REPORT

international Application No PCT/EP2004/010992

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C01B17/90 C01G49/14

According to International Patent Classification (IPC) or to both national classification and IPC

## **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C01B C01G C23G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, PAJ, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 382 916 A (BEECHER BRAZIER K) 10 May 1983 (1983-05-10) cited in the application claim 1 column 1, line 50 - column 2, line 30 examples	1-21
A	US 4 952 378 A (WATANABE MORIO ET AL) 28 August 1990 (1990-08-28) claim 1 column 1, line 54 - column 2, line 10 examples -/	1-21

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents:      A' document defining the general state of the art which is not considered to be of particular relevance      E' earlier document but published on or after the international filing date      L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O' document referring to an oral disclosure, use, exhibition or other means      P' document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family  Date of mailing of the international search report
Date of the actual completion of the international search  16 December 2004	13/01/2005
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer Rhodes, K

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
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A	GB 750 496 A (STEEL COMPANY OF WALES LTD) 20 June 1956 (1956-06-20) the whole document	1-21
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information on patent family members

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